

SHARP 21SL41 SERVICE MANUAL



Table of Contents

[LIST OF CHANGED PARTS](#)

[PRINTED WIRING BOARD ASSEMBLIES](#)

[PARTS LIST](#)

[PICTURE TUBE](#)

[MISCELLANEOUS PARTS](#)

[SUPPLIED ACCESSORIES](#)

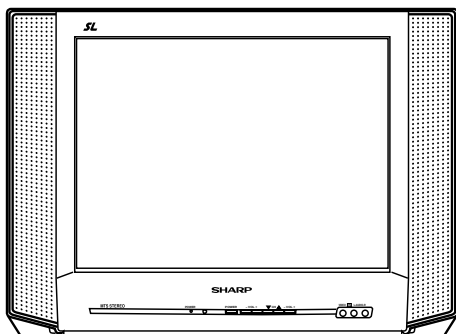
[PACKING PARTS](#)

[CABINET PARTS](#)

[Other ManualsLib Projects](#)

SHARP SERVICE MANUAL

S60B821SL41//

**COLOUR TELEVISION****Chassis No. SN-80A****21SL41****MODELS****21SL71**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

OUTLINE

This Service Manual covers the modifications from Models 21SL40 and 21SL70. For data and information not discussed here, please refer to the 21SL40/21SL70 Service Manual (S89N421SL40//).

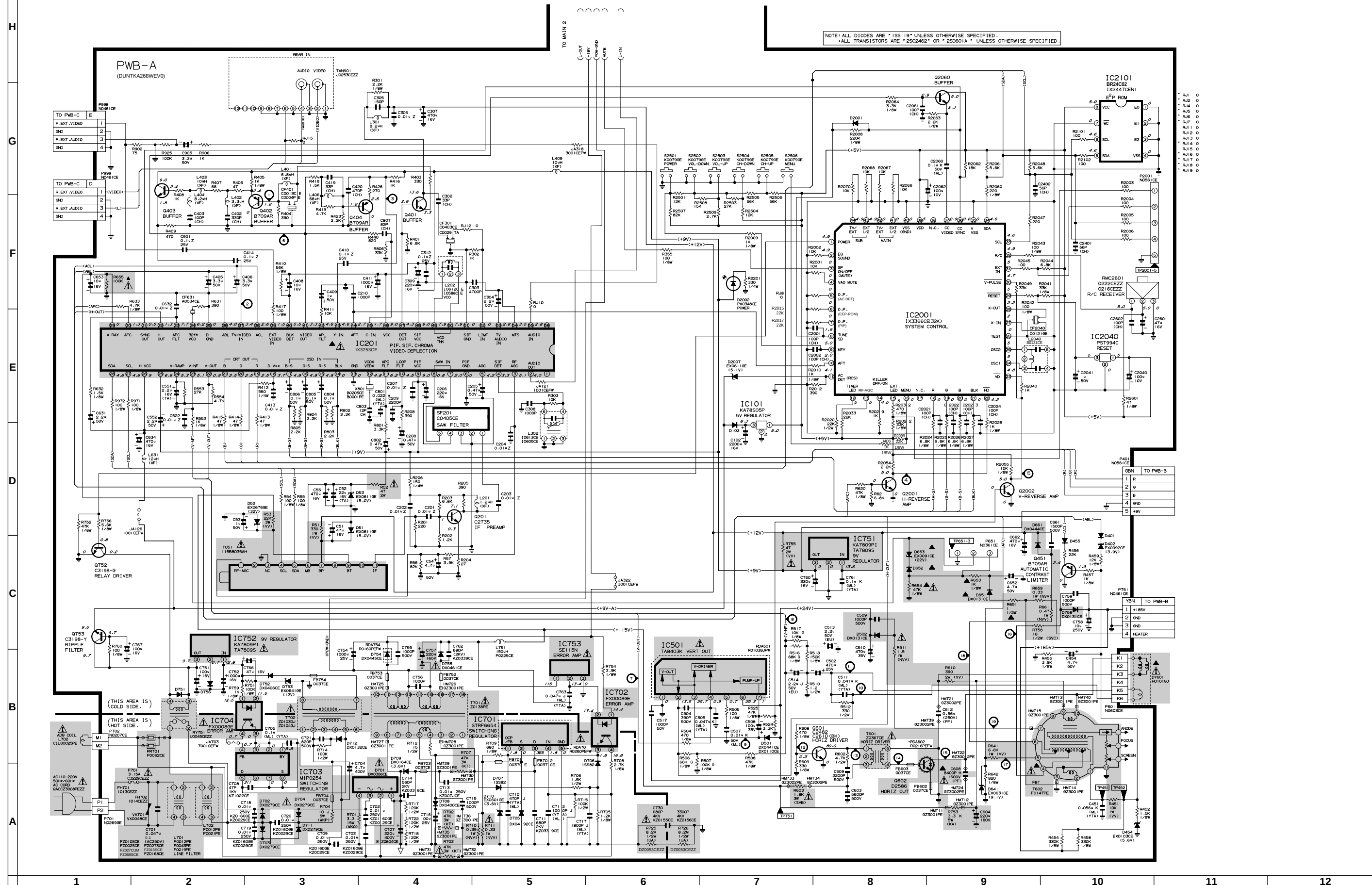
LIST OF CHANGED PARTS

Ref. No.	Description	Current (21SL40)	New (21SL41)	Note
PICTURE TUBE				
	Purity Magnet	PMAGF3003CEZZ	PMAGF3046CEZZ	
PRINTED WIRING BOARD ASSEMBLIES				
PWB-A	MAIN Unit	DUNTK9882WEV1	DUNTKA268WEV0	
PWB-C	FRONT A/V Unit	DUNTK9883WEV1	DUNTKA269WEV0	
MAIN UNIT				
TU51	Tuner	VTU115B8035AH or VTU115B8025AM	VTU115B8035AH	
IC2001	I.C.	RH-IX3256CEZZ	RH-IX3366CEZZ	
IC2101	I.C.	VHiM24C01B/-1	VHiBR24C02/-1	
L2040	Coil	RCILB0159CEZZ	RCILB0131CEZZ	
C712	Capacitor	RC-QZA102TAYJ	VCQYTA1HM102J	
C717	Capacitor	RC-QZA182TAYJ	VCQYTA1HM182J	
C763	Capacitor	RC-QZA473TAYJ	VCQYTA1HM473J	
C5307	Capacitor	RC-QZA272TAYK	VCQYTA1HM272K	
	Capacitor	VCEGAXXXXXXX	VCEA0AXXXXXXX	
RJ13	Resistor	VRS-CY1JF000J	—	Abolished
RJ20	Resistor	VRS-CY1JF000J	—	Abolished
R725	Resistor	VRC-UA2HG825K	VRC-UA2HG825K or RC-DZ0053CEZZ	
R726	Resistor	VRC-UA2HG825K	VRC-UA2HG825K or RC-DZ0053CEZZ	
R2031	Resistor	VRD-RA2BE102J	—	Abolished
R2015	Resistor	—	VRS-CY1JF223J	Added
R2017	Resistor	—	VRS-CY1JF223J	Added
R2099	Resistor	—	VRD-RA2BE223J	Added
R5305	Resistor	VRS-CY1JF153J	VRS-CY1JF103J	
J406	Resistor	—	VRD-RA2BE102J	Added
MISCELLANEOUS PARTS				
	Feature Label	TLABZ0103GJZZ	TLABZ0114GJZZ	
	Connecting Cord	QCNW-2110PEZZ	QCNW-1963PEZZ	
SUPPLIED ACCESORRIES				
	Operation Manual	TiNS-6655GJZZ	TiNS-7031GJZZ	
	Infrared R/C Unit	RRMCG1339CESA	RRMCG1339CESB	
PACKING PARTS				
	Packing Case	SPAKC0109GJZZ	SPAKC0128GJZZ	
CABINET PARTS				
1	Front Cabinet Ass'y	CCABA0106WEH0	CCABA0106WEH2	
1-4	Button	JBTN-0102GJSA	JBTN-0102GJSB	

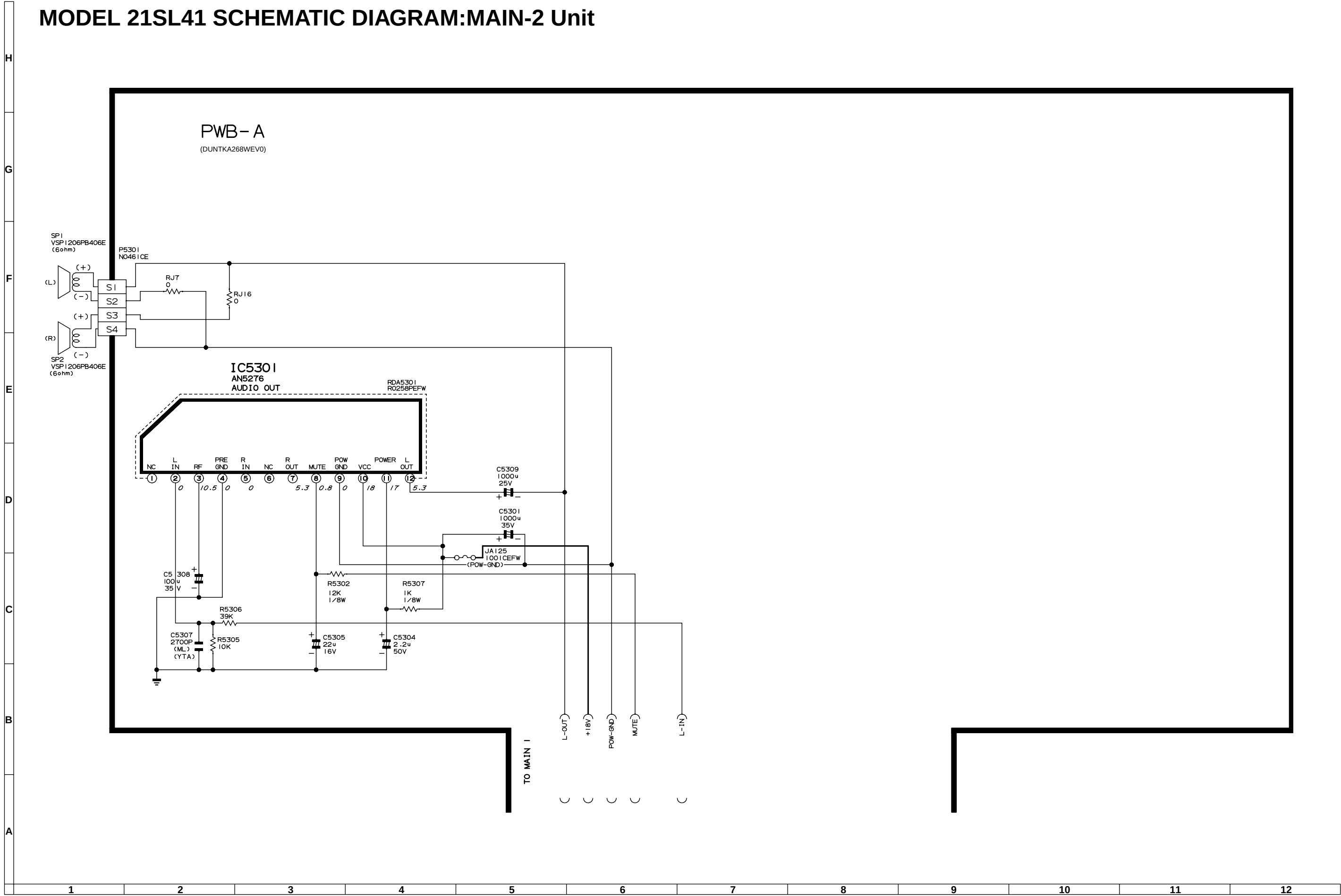
LIST OF CHANGED PARTS

Ref. No.	Description	Current (21SL70)	New (21SL71)	Note
PICTURE TUBE				
	Purity Magnet	PMAGF3003CEZZ	PMAGF3046CEZZ	
PRINTED WIRING BOARD ASSEMBLIES				
PWB-A	MAIN Unit	DUNTK9882WEV2	DUNTKA268WEV1	
PWB-C	FRONT A/V Unit	DUNTK9883WEV2	DUNTKA269WEV1	
MAIN UNIT				
TU51	Tuner	VTU115B8025AM	VTU115B8035AH	
IC2001	I.C.	RH-IX3256CEZZ	RH-IX3366CEZZ	
IC2101	I.C.	VHiM24C01B/-1	VHiBR24C02/-1	
D53	Diode	—	RH-EX0611GEZZ	Added
D2002	Diode	RH-PX0348CEZZ	RH-PX0348CEZZ or RH-PX0013PEZZ	
L2040	Coil	RCiLB0159CEZZ	RCiLB0131CEZZ	
C54	Capacitor	VCEA0A1HW225M	VCEA0A1CW475M	
C55	Capacitor	VCEGA1CW108M	VCEA0A1CW477M	
C710	Capacitor	RC-QZA471TAYJ	VCQYTA1HM471K	
C712	Capacitor	RC-QZA102TAYJ	VCQYTA1HM102K	
C717	Capacitor	RC-QZA182TAYJ	VCQYTA1HM182K	
C763	Capacitor	RC-QZA473TAYJ	VCQYTA1HM473K	
C3003	Capacitor	RC-QZA123TAYK	VCQYTA1HM123K	
C3014	Capacitor	RC-QZA473TAYK	VCQYTA1HM473K	
C5306	Capacitor	RC-QZA272TAYK	VCQYTA1HM272K	
C5307	Capacitor	RC-QZA272TAYK	VCQYTA1HM272K	
	Capacitor	VCEAGAXXXXXXX	VCEA0AXXXXXXX	
RJ13	Resistor	VRS-CY1JF000J	—	Abolished
RJ20	Resistor	VRS-CY1JF000J	—	Abolished
R51	Resistor	VRS-VV3DB151J	VRS-VV3AB331J	
R52	Resistor	VRD-RA2BE1R0J	VRS-VV3DB470J	
R57	Resistor	VRS-CY1JF103J	VRS-CY1JF392J	
R725	Resistor	VRC-UA2HG825K	VRC-UA2HG825K or RC-DZ0053CEZZ	
R726	Resistor	VRC-UA2HG825K	VRC-UA2HG825K or RC-DZ0053CEZZ	
R2015	Resistor	—	VRS-CY1JF223J	Added
R2017	Resistor	—	VRS-CY1JF223J	Added
R2031	Resistor	VRD-RA2BE102J	—	Abolished
R2099	Resistor	—	VRD-RA2BE223J	Added
J406	Resistor	—	VRD-RA2BE102J	Added
P601	Plug	QPLGN0603CEZZ	QPLGN0603CEZZ or QPLGN0660CEZZ	
P702	Plug	QPLGN0207CEZZ	QPLGN0207CEZZ or QPLGN0260CEZZ	
MISCELLANEOUS PARTS				
	Feature Label	TLABZ0102GJZZ	TLABZ0115GJZZ	
	CRT Washer	LX-WZ0102GJFD	LX-WZ0103GJFD	
SUPPLIED ACCESORRIES				
	Operation Manual	TINS-6656GJZZ	TINS-7032GJZZ	
	Infrared R/C Unit	RRMCG1339CESA	RRMCG1339CESB	
PACKING PARTS				
	Packing Case	SPAKC0102GJZZ	SPAKC0127GJZZ	
CABINET PARTS				
1	Front Cabinet Ass'y	CCABA0102WEH0	CCABA0102WEH2	
1-4	Button	JBTN-0102GJSA	JBTN-0102GJSB	

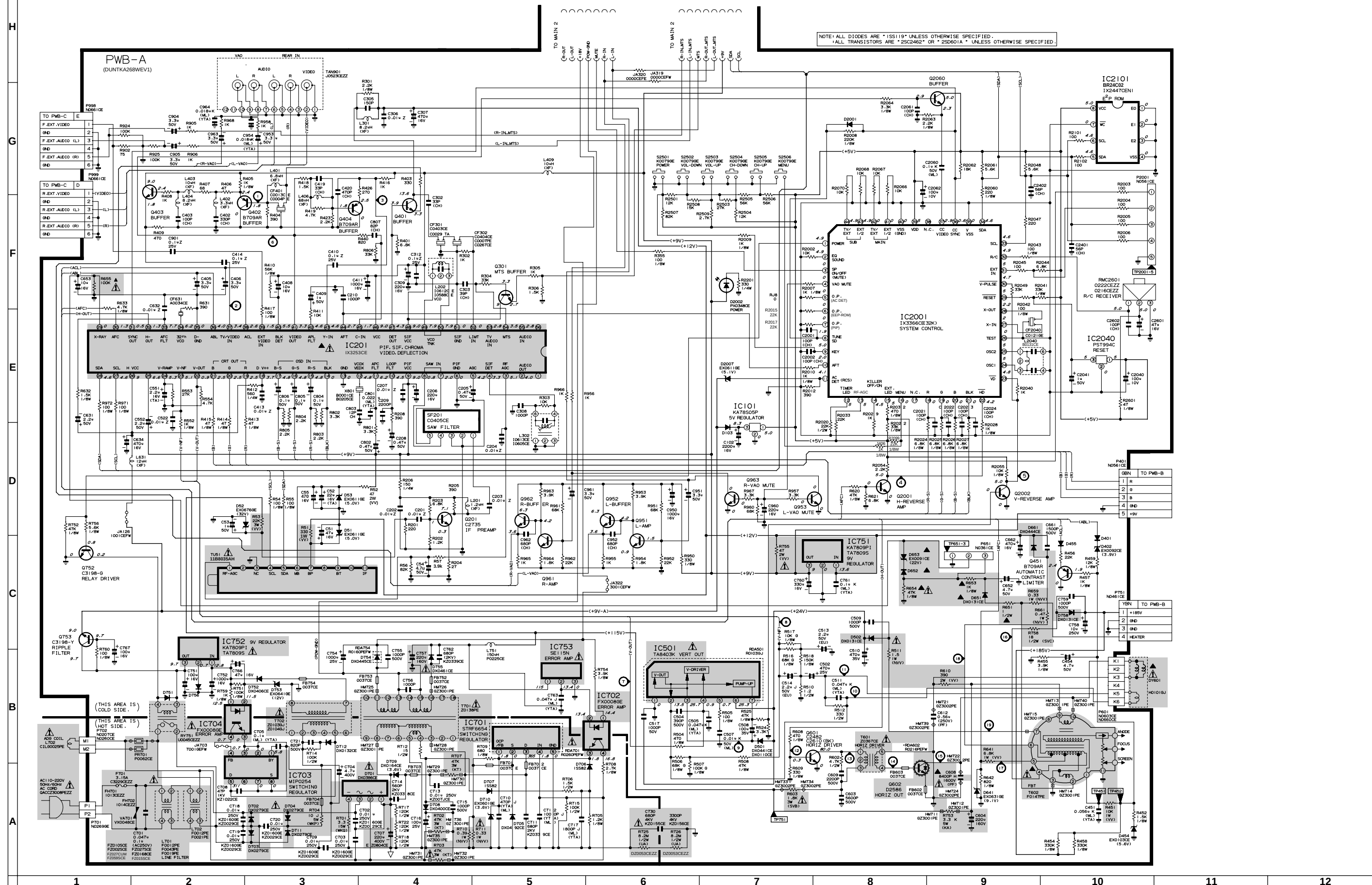
MODEL 21SL41 SCHEMATIC DIAGRAM:MAIN-1 Unit



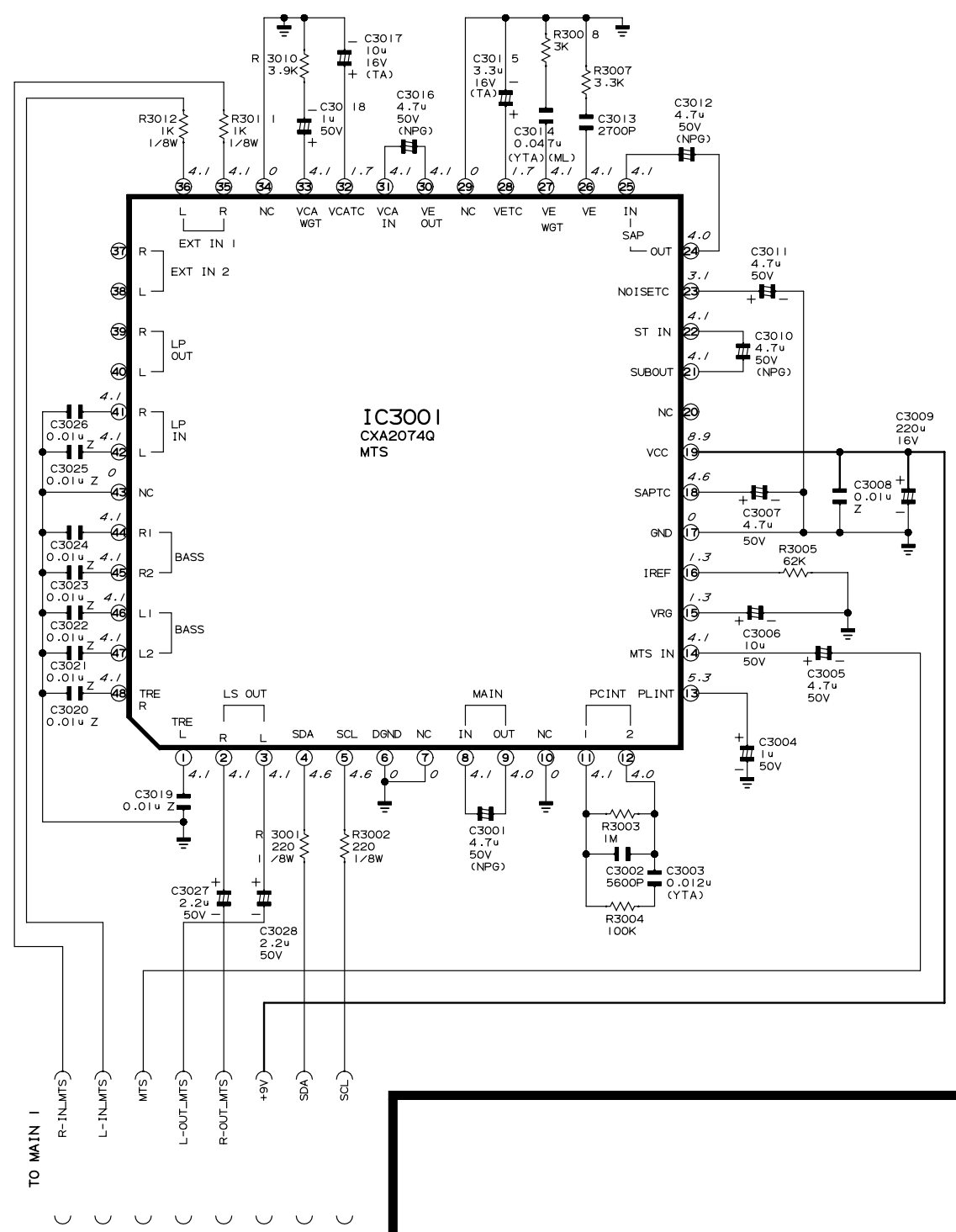
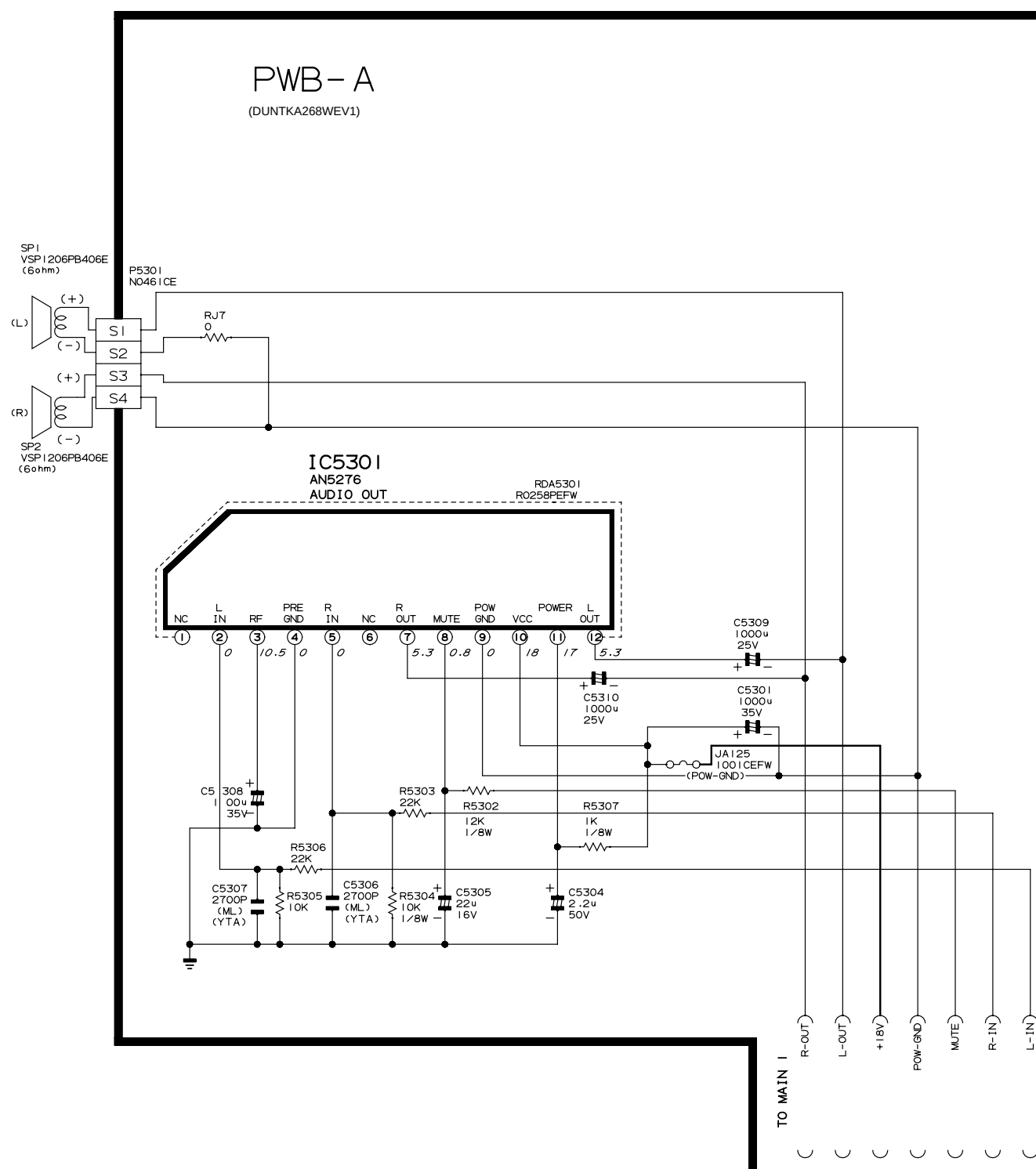
MODEL 21SL41 SCHEMATIC DIAGRAM:MAIN-2 Unit



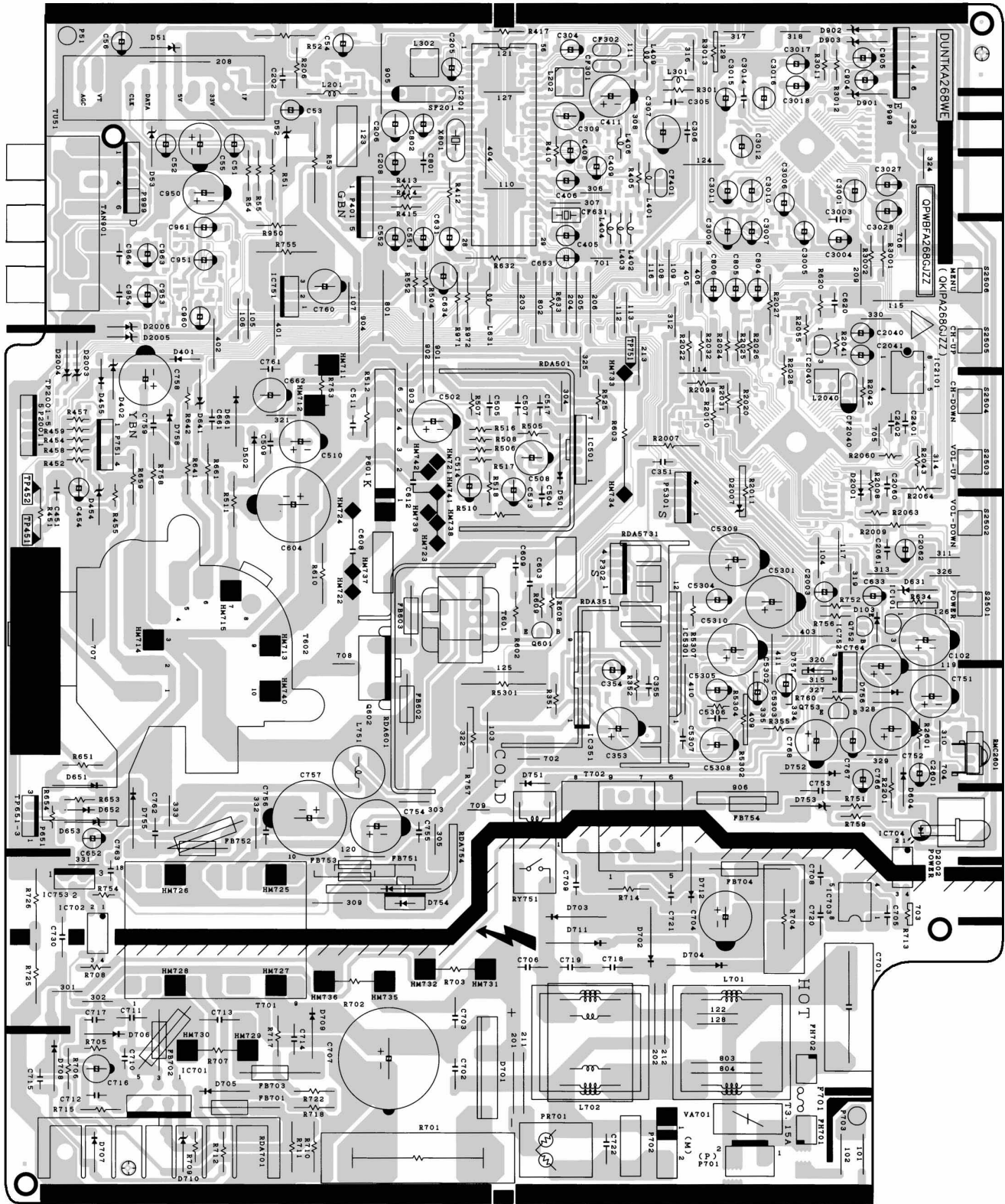
MODEL 21SL71 SCHEMATIC DIAGRAM:MAIN-1 Unit



MODEL 21SL71 SCHEMATIC DIAGRAM:MAIN-2 Unit



PRINTED WIRING BOARD ASSEMBLIES



PWB-A: MAIN Unit (Wiring Side)

1 2 3 4 5 6

H

G

F

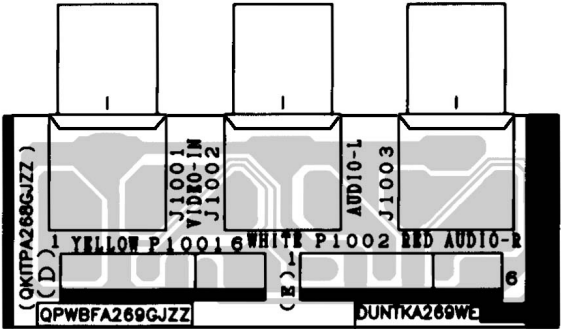
E

D

C

B

A



PWB-C: FRONT AV Unit (Wiring Side)

1

2

3

4

5

6

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by Δ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK : SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

PMAGF3046CEZZ	J	Purity Magnet	AF
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PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

21SL41

PWB-A DUNTKA268WEV0	-	MAIN Unit	—
PWB-C DUNTKA269WEV0	-	FRONT AV Unit	—

21SL71

PWB-A DUNTKA268WEV1	-	MAIN Unit	—
PWB-C DUNTKA269WEV0	-	FRONT AV Unit	—

PWB-A: DUNTKA268WEV0 (21SL41) MAIN UNIT

INTEGRATED CIRCUITS

IC2001 RH-ix3366CEZZ	J		AU
IC2101 VHiBR24C02/-1	J		AF
or			
RH-ix2447CEN1			

COIL

L2040 RCiLB0131CEZZ	J	Oscillation Coil	AK
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CAPACITORS

C712 VCQYTA1HM102J	J	1000p 50V	Mylar	AB
C717 VCQYTA1HM182J	J	1800p 50V	Mylar	AB
C763 VCQYTA1HM473J	J	0.047 50V	Mylar	AB
C5307 VCQYTA1HM272K	J	2700p 50V	Mylar	AB

Ref. No.	Part No.	★	Description	Code
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RESISTORS

[M-Ox... Metal Oxide]

Δ R725	VRC-UA2HG825K	J	8.2M 1/2W	Solid	AA
or					
	RC-DZ0053CEZZ				
Δ R726	VRC-UA2HG825K	J	8.2M 1/2W	Solid	AA
or					
	RC-DZ0053CEZZ				
R2015	VRS-CY1JF223J	J	22K 1/16W	M-Ox.	AA
R2017	VRS-CY1JF223J	J	22K 1/16W	M-Ox.	AA
R2099	VRD-RA2BE223J	J	22k 1/8W	Carbon	AA
R5305	VRS-CY1JF103J	J	10K 1/16W	M-Ox.	AA

MISCELLANEOUS PARTS

J406	VRD-RA2BE102J	J	1K 1/8W	Carbon	AA
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PWB-A: DUNTKA268WEV1 (21SL71) MAIN UNIT

TUNER

NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

Δ TU51	VTU115B8035AH	X	Tuner	AH
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INTEGRATED CIRCUITS

IC2001 RH-ix3366CEZZ	J		AU
IC2101 VHiBR24C02/-1	J		AF
or			
RH-ix2447CEN1			

DIODES

D53	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D2002	RH-PX0348PEZZ	R	LED, Power	AB
or				
	RH-PX0013PEZZ			

COIL

L2040	RCiLB0131CEZZ	J	Oscillation Coil	AK
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CAPACITORS

[EL... Electrolytic]

C54	VCEA0A1HW475M	J	4.7 50V	EL.	AB
C55	VCEA0A1CW477M	J	470 16V	EL.	AC
C710	VCQYTA1HM471K	J	470p 50V	Mylar	AB
C712	VCQYTA1HM102K	J	1000p 50V	Mylar	AB
C717	VCQYTA1HM182K	J	1800p 50V	Mylar	AB
C763	VCQYTA1HM473K	J	0.047 50V	Mylar	AB
C3003	VCQYTA1HM123K	J	0.012 50V	Mylar	AB
C3014	VCQYTA1HM473K	J	0.047 50V	Mylar	AB
C5306	VCQYTA1HM272K	J	2700p 50V	Mylar	AB
C5307	VCQYTA1HM272K	J	2700p 50V	Mylar	AB

RESISTORS

[M-Ox... Metal Oxide]

R51	VRS-VV3AB331J	J	330 1W	M-Ox.	AA
R52	VRS-VV3DB470J	J	470 2W	M-Ox.	AA
R57	VRS-CY1JF392J	J	3.9K 1/16W	M-Ox.	AA
Δ R725	VRC-UA2HG825K	J	8.2M 1/2W	Solid	AA
or					
	RC-DZ0053CEZZ				
Δ R726	VRC-UA2HG825K	J	8.2M 1/2W	Solid	AA
or					
	RC-DZ0053CEZZ				
R2015	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA
R2017	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA
R2099	VRD-RA2BE223J	J	22k 1/8W	Carbon	AA

MISCELLANEOUS PARTS

J406	VRD-RA2BE102J	J	1K 1/8W	Carbon	AA
P601	QPLGN0660CEZZ	J	Plug, 6-pin (K)	AA	
P702	QPLGN0260CEZZ	J	Plug, 2-pin (M)	AA	

Ref. No.	Part No.	★	Description	Code
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MISCELLANEOUS PARTS

LX-BZ3000GJFD	X	CRT Washer	AB
QCNW-1963PEZZ	R	Connecting Cord (21SL41)	AE
TLAZ0114GJZZ	X	Feature Label (21SL41)	AE
TLABZ0115GJZZ	X	Feature Label (21SL71)	AG

SUPPLIED ACCESSORIES

RRMCG1339CESB	J	Infrared R/C Unit	AP
TiNS-7031GJZZ	X	Operation Manual (21SL41)	AM
TiNS-7032GJZZ	X	Operation Manual (21SL71)	AM

PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC0128GJZZ	-	Packing Case (21SL41)	—
SPAKC0127GJZZ	-	Packing Case (21SL71)	—

CABINET PARTS

1	CCABA0106WEH2	X	Front Cabinet Ass'y (21SL41)	BA
1	CCABA0102WEH2	X	Front Cabinet Ass'y (21SL71)	AW
1-4	JBTN-0102GJSB	X	Button	AH

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